

Appl. No. 10/606,397
Amdt. dated October 28, 2005
Reply to Office action of July 1, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

1. (cancelled)
2. (currently amended) A trim tool for trimming an opening casing which includes at least two casing panels, each having front and rear edges and inner and outer faces spanning the front and rear side edges, coupled together at a 90° angle to form a casing joint, said trim tool comprising:

a corner clamp assembly including clamping means reacting between the casing and at least a pair of the right angularly related trim pieces, each having inner and outer edges, for urging marginal portions of said trim pieces into abutting relation with each other to form a trim joint in juxtaposition with the front edge of the casing and the casing joint;

The trim tool set forth in claim 1 wherein said corner clamp assembly includes including

a pair of right angularly related mounting bars rigidly fixed together and lying in a first plane;

a trim clamp mounted in perpendicular relation to on each of said bars including

a first clamp arm including a first clamp face for bearing against said outer

edge of one of said trim pieces; and

a second clamp arm including a second clamp face for bearing against the inner face of one of said panels;

said trim clamps being disposed perpendicularly to each other and generally parallel to said first plane.

3. (previously amended) The trim tool set forth in claim 2 wherein said corner clamp assembly includes means for adjusting the relative positions of said clamp arms toward and away from each other.

4. (previously amended) The trim tool set forth in claim 2 wherein each of said trim clamp includes means, rotatable about an axis, for urging said second clamp face in a direction away from said second clamp arm toward said first clamp arm and said first clamp face.

5. (previously amended) The trim tool set forth in claim 2 wherein each trim clamp includes linearly moveable means adjustably mounting said first clamp arm for linear movement toward and away from said second clamp arm and rotatable means for adjustably mounting said second clamp face on said second clamp arm for movement toward and away from said first clamp face.

6. (currently amended) A trim tool for trimming an opening casing which includes at least two casing panels, each having front and rear edges and inner and outer faces spanning the front and rear side edges, coupled together at a 90° angle to form a casing joint, said trim tool comprising:

a corner clamp assembly including clamping means reacting between the casing and at least a pair of the right angularly related trim pieces, each having inner and outer

edges, for urging marginal portions of said trim pieces into abutting relation with each other to form a trim joint in juxtaposition with the front edge of the casing and the casing joint;

~~The trim tool set forth in claim 1 wherein said corner clamp assembly includes~~
including

a unitized mount comprising a pair of right angularly disposed related mounting
perches lying in a first predetermined plane support bars;

a trim clamp mounted on each of said ~~support bars~~ mounting perches including
a pair of clamp arms; and

means for moving said pair of clamp arms toward and away from each
other in a path parallel to said first predetermined plane.

7. (currently amended) The trim tool set forth in claim 6 wherein each of said trim
clamps includes

means mounting one of said clamp arms to one of said mounting perches
~~support bars;~~

linearly adjustable mount means mounting the other of said pair of clamp arms
on said one clamp arm for linear movement toward and away from said one clamp arm;

a fixed clamp face fixed to said other clamp arm and a moveable clamp
face adjustably mounted on said one clamp arms; and

said moveable clamp face being partially offset relative to said first clamp face in
a direction toward said mounting bars; and

rotatably adjustable mount means mounting said moveable clamp face on
said one clamp arm for movement relative to said one clamp arm toward and away

from said other clamp arm and said fixed clamp face.

8. (currently amended) A trim tool for trimming an opening casing which includes at least two casing panels, each having front and rear edges and inner and outer faces spanning the front and rear side edges, coupled together at a 90° angle to form a casing joint, said trim tool comprising:

a corner clamp assembly including clamping means reacting between the casing and at least a pair of the right angularly related trim pieces, each having inner and outer edges, for urging marginal portions of said trim pieces into abutting relation with each other to form a trim joint in juxtaposition with the front edge of the casing and the casing joint;

~~The trim tool set forth in claim 1 wherein said corner clamp assembly includes~~
including

a unitized mount comprising a pair of right angularly disposed mounting perches lying in a first predetermined plane ~~related support bars;~~

a trim clamp mounted on each of said ~~support bars~~ mounting perches including

first and second spaced apart generally parallel mounting arms;

a first adjustable clamp face;

rotatable means adjustably mounting said first clamp face on said first arm for movement relative to said first arm in a path generally parallel to said plane between a remote position and a clamping position clampingly engaging the inner face of one of said casing panels ;

said second arm including a second clamp face for clamping to said outer edge of one of said trim pieces;

said first arm being fixed to said one of said mounting perches bars; and
means mounting said second arm for movement toward and away from
said first arm to move said first clamp face into bearing engagement with said outer
edge of said one trim piece;

said trim clamps being disposed perpendicularly to each other.

9. (cancelled)

10. (cancelled)

11. (currently amended) A trim tool for clamping two coplanar trim pieces, each having
inner and outer edges, in right angular relation with margins thereof in abutment to form
a first joint in juxtaposition with a second joint formed by abutting end portions of two
right angularly related planar frame members having inner and outer planar faces, said
trim tool comprising:

a rigid mounting support lying in a first plane;

a pair of right angularly related clamp members mounted on said mounting
support;

each clamp member including

a pair of opposing inner and outer relatively moveable clamp faces; and

means for adjustably mounting said clamp faces of each clamp member
for movement toward and away from each other in a predetermined path of travel
parallel to said first plane including

means for moving said outer clamp face into clamping engagement
with the outer edge of one of said trim pieces, and

means for moving said inner clamp face into clamping engagement

with the inner planar face of one of the planar frame members.

12. (currently amended) The trim tool set forth in claim 11 wherein each clamp member includes a pair of spaced apart inner and outer clamp arms; said outer face being mounted on said outer arm and said inner face being movably mounted on said inner arm and being partially offset, in a direction toward said mounting support, relative to said outer face.

13. (previously amended) The trim tool set forth in claim 12 wherein said means for adjustably mounting said clamp members for movement toward and away from each other includes means adjustably mounting said outer arm for movement on said inner arm and said means for moving said inner clamp face includes rotatable means mounting said inner face on said inner arm.

14. (cancelled).

15. (previously amended) The trim tool set forth in claim 11 wherein said mounting support comprises a pair of right angularly related support bars; and means for mounting said support bars in a position inwardly of the planar frame members.

16. (previously amended) The trim tool set forth in claim 15 wherein each clamp member includes inner and outer clamp arms; said outer clamp arm mounting said outer clamp face and including a terminal end; and said means for adjustably mounting said clamp faces for movement toward and away from each other includes means adjustably mounting said outer clamp arm on said inner clamp arm; and said means for moving said inner clamp face includes an inner threaded member, threadedly mounted on said inner arm for rotation about an axis, mounting said inner face for movement toward and away from said outer face.

17. (previously amended) The trim tool set forth in claim 16 wherein said axis and said terminal end lie in the same plane.

18. (previously amended) The trim tool set forth in claim 17 wherein said inner clamp arm includes a slot therethrough; and including a rod fixed to said outer arm and slidably adjustably received in said slot for adjustably mounting said outer arm on said inner arm.

19. (previously amended) The trim tool set forth in claim 18 including hand graspable handle means coupled to said threaded member for rotating said threaded member about said axis;

said slot being slightly larger than said rod to allow limited swinging movement of said rod relative to said inner clamp arm.

20. (cancelled)

21. (currently amended) A trim tool for trimming an opening casing having

at least two right angularly disposed planar opening frame members,

lying in right angularly disposed first and second planes, and

having abutting end portions, forming a frame joint,

each frame member including inner and outer frame faces,

said trim tool comprising:

clamp assembly means for clamping a pair of right angularly related coplanar trim members to the two frame members with the plane of the coplanar trim members being perpendicular to the first and second planes of the frame members;

each of the trim members having inner and outer edges and an end abutting the end of the other trim member to form a trim joint adjacent the frame joint;

~~The trim tool set forth in claim 20 wherein said clamp assembly means~~
~~comprising~~ comprises a mounting support including a pair of right angularly disposed
supports, bars adapted to be mounted inwardly of the inner faces of the frame
members, lying in a fourth plane; and

clamp apparatus mounted on each of said supports ~~bars~~ including:

an inner clamp arm mounted on one of said supports ~~bars~~ and an outer
clamp arm mounted on said inner clamp arm for movement in a fifth plane parallel to
said fourth plane and having an outer clamp face for clamping against the outer edge of
one of said trim members; and

an inner clamp face provided on said inner clamp arm for clamping
against the inner frame face of one of said frame members.

22. (original) The trim tool set forth in claim 21 wherein said clamp apparatus includes
means adjustably mounting said outer clamp arm on said inner clamp arm.

23. (original) The trim tool set forth in claim 21 wherein said clamp apparatus includes
means mounting said inner clamp face for movement on said inner arm toward and
away from said outer clamp face.

24. (original) The trim tool set forth in claim 23 wherein said means mounting said inner
clamp face is rotatable.

25. (currently amended) The trim tool set forth in claim ~~20~~ 21 wherein said clamp
assembly means clamps said trim members to said frame members with said inner
edge of each said trim member spaced outwardly of the inner face of the adjacent
frame member.

26. (currently amended) The trim tool set forth in claim ~~20~~ 21 wherein said clamp

means includes an outer clamp face for clamping against said outer edge of one of said trim members and an opposing inner clamp face partially offset, in a direction toward said supports and said fourth plane relative to said outer clamp face for clamping against the inner frame face of one of the frame members; and means for moving said clamp faces toward and away from each other.

27. (cancelled)

28. (cancelled)

29. (cancelled)

30. (original)

31. (currently amended) A trim tool for trimming an opening casing with a trim frame including at least two right angularly disposed trim boards each having inner and outer edges and a terminal end abutting the terminal end of the other trim board to form a trim joint, said opening casing being mounted in an opening provided in an upstanding wall having a vertical face, said opening casing having at least two right angularly disposed, planar frame members, having terminal abutting ends forming a frame joint, each planar frame members provided with inner and outer planar faces spanning front and rear edges, said front edges being disposed flush with the vertical face,

said trim tool comprising:

a corner clamp assembly for clamping the two right angularly disposed trim boards, to the front sides of the two frame boards with the inner edges disposed outwardly of the inner planar faces of the planar frame member and said trim joint disposed adjacent the frame joint;

The trim tool set forth in claim 27 wherein said corner assembly including

includes a rigid mounting support and a pair of right angularly disposed clamp means mounted on said rigid mounting support for detachably clamping said trim members to said frame members;

each of said clamp means including

inner and outer opposing clamp faces for clamping against one of said inner planar faces and one of said outer edges, respectively, and

means for moving said inner and outer clamp faces between nonclamping positions and clamping positions clamped to said one inner face and said one outer edge, respectively;

said inner face being partially rearwardly offset relative to said outer opposing clamp face.

32. (original) The trim tool set forth in claim 31 wherein said outer clamp face projects rearwardly toward the vertical face a predetermined distance relative to said mounting support and said inner clamp face projects rearwardly from said mounting support a greater predetermined distance.

33. (currently amended) A trim tool for trimming an opening casing with a trim frame including at least two right angularly disposed trim boards each having inner and outer edges and a terminal end abutting the terminal end of the other trim board to form a trim joint, said opening casing being mounted in an opening provided in an upstanding wall having a vertical face, said opening casing having at least two right angularly disposed, planar frame members, having terminal abutting ends forming a frame joint, each planar frame members provided with inner and outer planar faces spanning front and rear edges, said front edges being disposed flush with the vertical face.

said trim tool comprising:

a corner clamp assembly for clamping the two right angularly disposed trim boards, to the front sides of the two frame boards with the inner edges disposed outwardly of the inner planar faces of the planar frame member and said trim joint disposed adjacent the frame joint;

~~The trim tool set forth in claim 27 wherein said corner assembly includes~~
including a rigid mounting support adapted to be spaced forwardly from the vertical wall, and a pair of right angularly related clamp means mounted on said mounting support for clamping said trim members to said opening frame members; each of said clamp means including inner and outer clamp arms projecting rearwardly away from said mounting support; said outer clamp arm including a terminal end for bearing against the vertical face of the wall and said outer clamp face being disposed on a terminal portion of said outer clamp arm adjacent said terminal end.

34. (original) The trim tool set forth in claim 33 wherein said inner clamp arm projects rearwardly from said mounting support a greater predetermined distance greater than said predetermined distance and includes a terminal portion mounting said inner clamp face.

35. (original) The trim tool set forth in claim 34 wherein said clamp means includes means for moving said inner clamp face relative to said inner clamp arm.

36. (original) The trim tool set forth in claim 35 wherein said means for moving said inner clamp face is rotatable about an axis.

37. (original) The trim tool set forth in claim 36 including means mounting said inner and outer clamp arms together for relative movement to any selected one of a plurality

of different spaced apart preset positions prior to being mounted on the opening frame members.

38. (original) The trim tool set forth in claim 37 wherein said means mounting said inner and outer clamp arms comprises an aperture in said inner arm and a rod coupled to said outer arm and slidably received in said inner arm.

39. (original) The trim tool set forth in claim 38 wherein said rod has a plurality of spaced apart teeth for engaging a portion of said inner arm adjacent said aperture for detachably holding said outer arm in any selected one of said plurality of present positions.

40. (cancelled)

41. (currently amended) A trim tool for trimming an opening casing having a pair of opening frame members lying in a pair of planes intersecting each other at a 90° angle; said trim tool comprising:

a corner clamp assembly for detachably clamping right angularly disposed coplanar trim members, lying in a third plane perpendicular to each of said pair of planes, to the pair of opening frame members;

The trim tool set forth in claim 40 wherein said clamp assembly includes including

a rigid mounting support, and

a pair of right angularly disposed clamp members mounted on said rigid mounting support, each clamp member including inner and outer relatively moveable clamp faces relatively moveable in paths of travel parallel to said third plane; and said inner clamp face being offset, in a direction toward said rigid mounting

support, relative to said outer clamp face.

means for relatively moving said inner and outer faces in said paths parallel to said third plane toward and away from each other between non-clamping positions and clamping positions in which said outer face is clamped to one of said trim members and said inner face is clamped to one of said frame members.

42. (currently amended) A trim tool for trimming an opening casing having a pair of opening frame members lying in a pair of planes intersecting each other at a 90° angle; said trim tool comprising:

a corner clamp assembly for detachably clamping right angularly disposed coplanar trim members, lying in a third plane perpendicular to each of said pair of planes, to the pair of opening frame members;

~~The trim tool set forth in claim 40 wherein said clamp assembly includes~~

a rigid mounting support;

a pair of right angularly disposed clamp members mounted on said mounting support, each clamp member including inner and outer relatively moveable parallel clamp arms mounted on said mounting support;

said inner clamp arm being longer than said outer clamp arm and including a terminal clamping end partially offset from the terminal end of said outer clamp arm;
and

means for relatively moving said inner and outer clamp arms toward and away from each other in paths parallel to said third plane between non-clamping positions and clamping positions in which said terminal end of said outer arm is clamped to one of said trim members and said terminal end of said inner arm is clamped to one of said

frame members.

43. (original) The trim tool set forth in claim 42 wherein said clamp assembly includes means mounting said outer clamp arm on said inner clamp arm for limited relative swinging movement as said inner and clamp arms are forced into clamping engagement with said inner face of said opening frame member and said outer edge of said trim frame member, respectively.